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Dear Customer,

Thank you for purchasing this Toshiba TV. This manual will help you use the many exciting features of your new TV. Before operating the TV, please read this manual completely, and keep it nearby for future reference.

Safety Precautions

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). **NO USER-SERVICEABLE PARTS INSIDE. REFER** SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.

The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, **RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.**

NOTE TO CATV INSTALLERS IN THE USA

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 25 and 26 on page 4.

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube. This type of damage is NOT COVERED BY YOUR WARRANTY. See item 33 on page 4.



ENERGY STAR® gualified TV. Products that earn the ENERGY STAR prevent green house gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

Child Safety



Congratulations on your purchase! As you enjoy your new TV, keep these safety tips in mind:

The Issue

- □ If you are like most consumers, you have a TV in your home. Many homes, in fact, have more than one TV.
- □ The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- □ Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.

Toshiba Cares!

□ The consumer electronics industry is committed to making home entertainment enjoyable and safe.

> □ The Consumer Electronics Association formed the Home **Entertainment Support Safety** Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

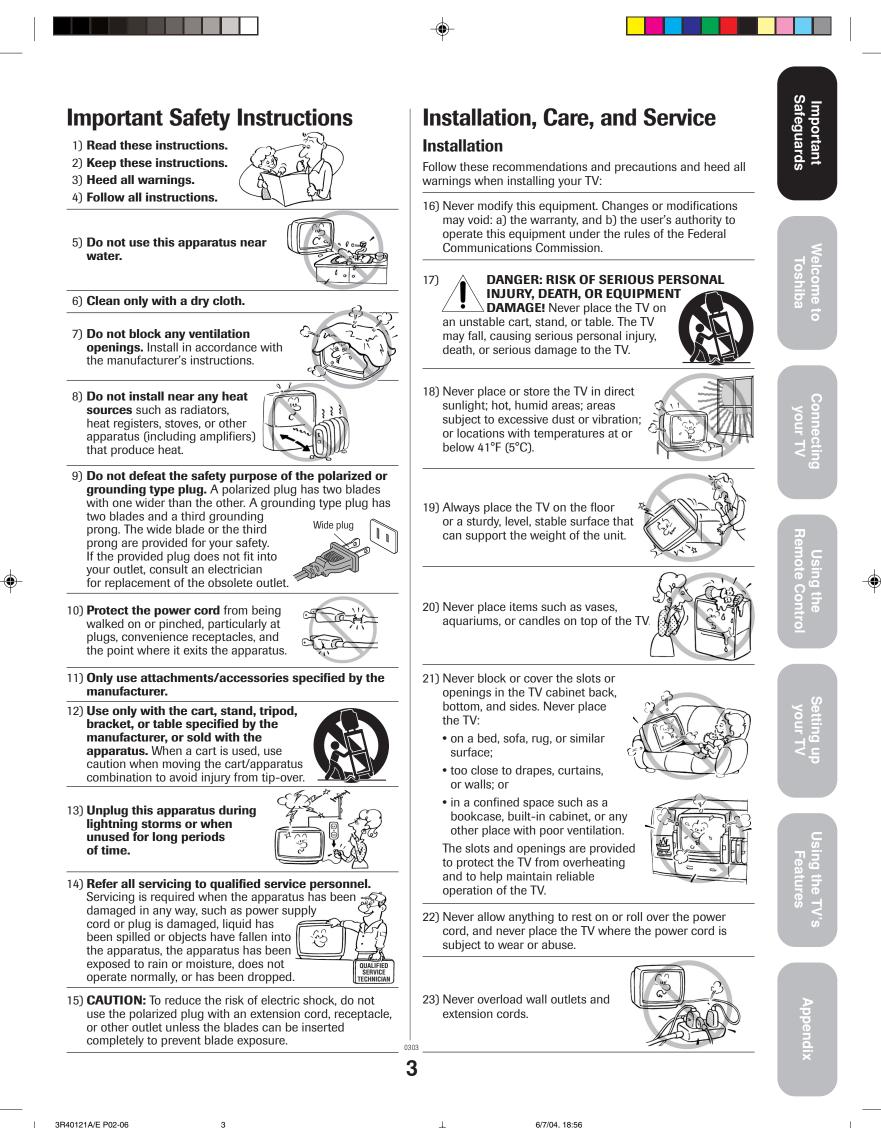
Tune Into Safety

One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).

- Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- Carefully read and understand the other enclosed instructions for proper use of this product.
- Do not allow children to climb on or play with furniture and TVs.
- Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- C Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- Share our safety message about this hidden hazard of the home with your family and friends. Thank you!





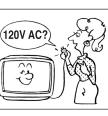


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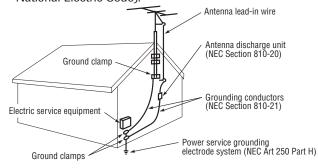
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Important Safequards

24) Always operate this equipment from a 120 V AC, 60 Hz power source only.



25) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



26) DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!

Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
 Never attempt to install any of the following during lightning activity:

a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

Care

For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

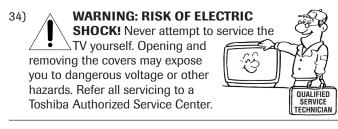
- 27) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture can appear dull if you sit too far to the left or right of the TV, or if sunlight or room lights reflect on the screen. Turn the TV off to check for reflections on the screen, and then remove the source of reflections while viewing the TV.
- Always unplug the TV before cleaning. Never use liquid or aerosol cleaners.



WARNING: RISK OF ELECTRIC SHOCK! Never spill liquids or push objects of any kind into the TV cabinet slots.

- 30) [*This item applies to projection TVs only.*] If the air temperature rises suddenly (for example, when the TV is first delivered), condensation may form on the lenses. This can make the picture appear distorted or the color appear faded. If this happens, turn off the TV for 6 to 7 hours to allow the condensation to evaporate.
- 31) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.
- 32) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.
- 33) Possible Adverse Effects on TV Picture Tube: If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your TV on for long periods of time while it is displaying the following formats or images:
 - **Fixed Images**, such as PIP/POP windows, stock tickers, video game patterns, TV station logos, and websites.
 - **Special Formats** that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (gray bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (gray bars on left and right sides of screen).

Service



35) If you have the TV serviced:

- Ask the service technician to use only replacement parts specified by the manufacturer.
- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.



36) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV. Improper disposal may result in a picture tube implosion and possible personal injury.

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Important Safety Information	s =
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Welcome to Toshiba

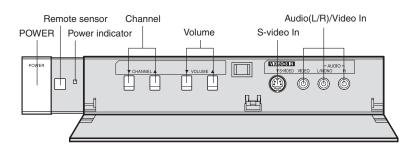
Congratulations! You have purchased one of the finest color TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible.

You may need to purchase other audio or video cables to connect your equipment. See "Connecting your TV" on page 7 for more information. Please read all the safety and operating instructions carefully before

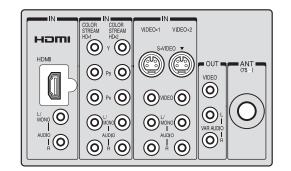
you begin.

Exploring your new TV

You can operate your TV by using the buttons on the front panel or the remote control. The front and back panels provide all the inputs you will need to connect other equipment to your TV.



TV front panel



TV back panel

Selecting a location for the TV

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- Place the TV on the floor or on a sturdy platform in a location where light does not directly hit the screen.
- Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV.

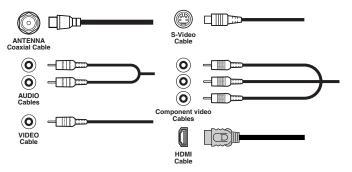


Velcome to Toshiba

Connecting your TV

If you haven't connected electronic equipment before, or you have been frustrated in the past, you may wish to read this section. (Cables are not supplied.)

- · A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use "F" connectors.
- Standard A/V (audio/video) cables are usually color coded according to use: yellow for video and red and white for audio. The red audio cable is for the stereo right channel, and the white audio cable is for the stereo left (or mono) channel. If you look at the rear panel of the TV, you will see that the terminals are color coded in the same manner as the cables.
- · S-video cables provide better picture performance. S-video cables can only be used with S-video compatible components.
- · Component video cables come in sets of three and provide the best picture performance. Component video cables can only be used with component video compatible components.
- HDMI (High Definition Multimedia Interface) is for use with video equipment that has an HDMI type A connector (see page 14).



Connecting a VCR

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OUT to TV

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This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and record from one channel while watching another channel.

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VIDEO-1

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You will need:

Caution:

- two coaxial cables
- one set of standard A/V cables

Note:

TV

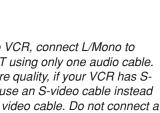
Stereo VCR

ANT

If using a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable. For better picture quality, if your VCR has Svideo, you can use an S-video cable instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 (or VIDEO-2) simultaneously.

Do not plug the TV in until you have finished

connecting all of your equipment.



Connecting your





Cable Lead-in from cable box or antenna



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Connecting a cable converter box

This television has an extended tuning range and can tune most cable channels without using a cable company supplied converter box. Some cable companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device, which is generally provided by the cable company.

For Subscribers to Basic Cable TV Service

For basic cable service not requiring a Converter/Descrambler box, connect the incoming 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the television.

For Subscribers to Scrambled Cable TV Service

If you subscribe to a cable service that requires the use of a Converter/ Descrambler box, connect the incoming cable to the Converter/ Descrambler box and connect the output of the box to the Antenna Jack on the back of the television. Follow the connections shown below. Set the television to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.

For Subscribers to Unscrambled Basic Cable with Scrambled Premium Channels

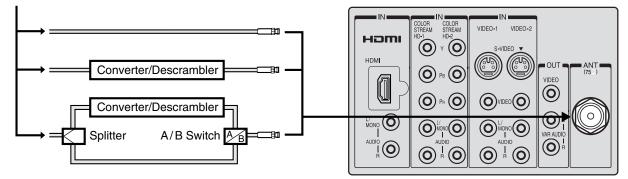
If you subscribe to a cable service in which basic cable channels are unscrambled and premium channels require the use of a Converter/ Descrambler box, you may wish to use a two-set signal splitter (sometimes called a "two-set coupler") and an A/B Switch box from the cable installer or an electronics supply store. Follow the connections shown below. With the switch in the "B" position, you can directly tune any nonscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the box to tune scrambled channels.

Note:

When you use a converter box with your TV, there may be features that you cannot program using the remote control, such as labeling channels, blocking channels, and programming your favorite channels.



Connectin vour TV

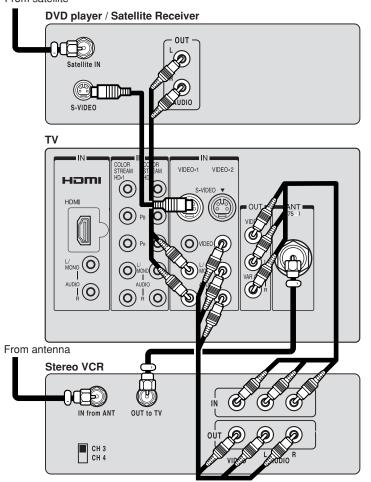




Connecting a DVD player/satellite receiver and a VCR

This connection allows you to watch DVD/satellite, VCR, or TV programs. You can record from the satellite receiver and TV, as well as record one TV channel while watching another channel.

From satellite



You will need:

- three coaxial cables
- two sets of standard A/V cables
- one S-video cable
- one pair of standard audio cables

Note:

You can use a standard video cable instead of the S-video cable, but the picture quality will decrease. If you use an S-video cable between the TV and DVD player/satellite receiver, make the audio connections only and remove the standard video cable. Important Safeguards

Velcome to Toshiba



Using the Remote Contro

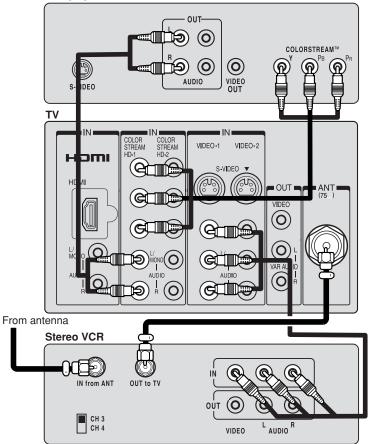
Using the TV Features

Appendix

Connecting a DVD player with ColorStream[®] (component video) and a VCR

This connection allows you to watch DVD, VCR, or TV programs and record TV programs. You can record from one source while watching a program from another source. Your TV is capable of using ColorStream (component video). Connecting your TV to a component video compatible DVD player, such as a Toshiba DVD player with ColorStream[®], can greatly enhance picture quality and performance.

DVD player with ColorStream®



You will need:

- two coaxial cables
- one set of standard A/V cables
- · one set of component video cables
- one pair of standard audio cables

Note:

For the highest possible picture quality, use component video cables between TV and DVD player. You can connect the component video cables to either set of ColorStream jacks on the TV (HD-1 or HD-2). The ColorStream HD-1 and HD-2 jacks can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance.

If your DVD player does not have component video, use the S-video and standard audio connections instead. Do not connect both an S-video and a standard video cable to VIDEO1 (or VIDEO2) at the same time or the picture performance will be unacceptable.

The unauthorized recording, use, distribution or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

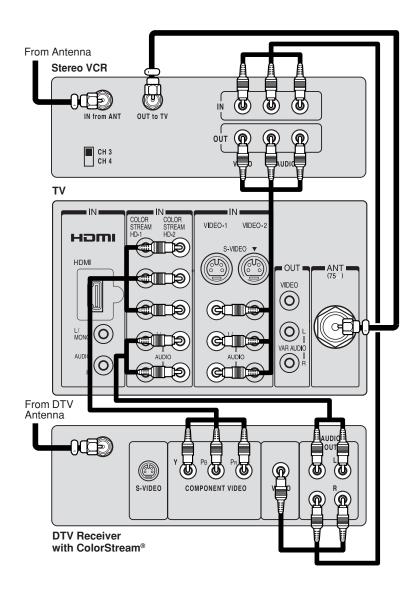
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Connectin vour TV

Connecting a DTV receiver / set-top box with ColorStream[®] (component video) and a VCR

This connection allows you to watch DTV (digital TV), VCR, and TV programs, and record DTV and TV programs.

Your TV has ColorStream[®] (component video) inputs. Connecting your TV to a DTV receiver with component video inputs can greatly enhance picture quality and realism.



You will need:

- three coaxial cables
- two sets of standard A/V cables
- one pair of audio cables
- · one set of component video cables

Note:

For the highest possible picture quality, use component video cables between TV and DTV receiver. You can connect the component video cables to either set of ColorStream jacks on the TV (HD-1 or HD-2).

The ColorStream HD-1 and HD-2 jacks can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance.

If your DTV receiver does not have component video, use the S-video and standard audio connections instead. Do not connect both an S-video and a standard video cable to VIDEO1 (or VIDEO2) at the same time or the picture performance will be unacceptable.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability. Welcome to Toshiba

Using the TV Features

Appendix

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Connecting two VCRs

This connection allows you to record (dub/edit) from one VCR to another VCR.

You will also be able to record from one TV channel while watching another channel. $\label{eq:stable}$

From antenna Stereo VCR/Playback 140 \bigcirc \bigcirc \bigcirc IN from ANT OUT to TV **@ @** ଭ OUT CH 3 CH 4 τν IN OLOR TREAM VIDEO-1 VIDEO-2 ноті \bigcirc S-VIDEO HDMI OUT IANT (75) \bigcirc VIDEO (\mathbf{Q}) (\mathbf{O}) Ó \cap $(\mathbf{0})$ L/ MONO (\mathbf{O}) ĨO 0 \bigcirc (\mathbf{O}) \mathbf{O} Stereo VCR/Recording \bigcirc \bigcirc ര ര OUT to TV IN from ANT CH 3 CH 4

You will need:

- · two coaxial cables
- two sets of standard A/V cables

Note:

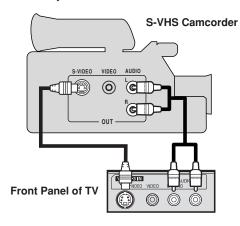
Do not connect the same VCR to the output and input jacks on the TV at the same time. For better picture quality, if your VCR has Svideo, you can use an S-video cable instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 (or VIDEO-2) simultaneously.

The unauthorized recording, use, distribution or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Connecting your TV

Connecting a camcorder

This connection allows you to watch videos recorded on a camcorder.



You will need:

- one S-video cable
- · one pair of standard audio cables

Note:

For better picture quality, if your camcorder has S-video, you can use an S-video cable (plus the standard audio cables) instead of a standard video cable.

Do not connect both a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable.

Connecting an audio amplifier

This connection allows you to use an audio amplifier to enjoy high quality sound. This also allows you to use external speakers. To control the audio, turn on the TV and the stereo amplifier.

From cable		Audio Amplifier
cable box	-	L AUDIO R
or antenna		
	IN CO.OR IN IN OLOR STREAM VDC0-1 VDC0-2 HDMI O Y O Subject Subject	

You will need:

- one coaxial cable
- one pair of audio cables

Connecting your TV

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Features

Appendix

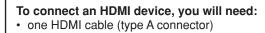
Connecting an HDMI[™] or a DVI device to the HDMI input

The HDMI^[1] input on your TV receives digital audio and uncompressed digital video from an HDMI device or uncompressed video from a DVI^[2] device.

This input is designed to accept HDCP^[3] program material in digital form from EIA/CEA-861/861B– compliant^[4] consumer electronic devices (such as a settop box or DVD player with HDMI or DVI output.

The HDMI input is designed for best performance with 1080i high-definition video signals, but will also accept and display 480i, 480p, and 720p signals.

Note: This TV is not intended for connection to and should not be used with a personal computer.



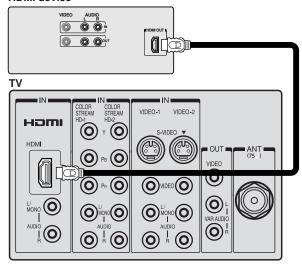
For proper operation, it is recommended that you use a short HDMI cable. You should not encounter difficulty if you use an HDMI cable which is shorter than 16.4ft (5m).

HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration below).

You must set the HDMI setting to HDMI in the AUDIO menu (see page 41).

Some CDVs (Video CDs) may not output digital audio signals. In that case, you may hear sound by connecting analog audio cables. If you connect analog audio cables with this connection (see "To connect a DVI device, you will need" in right column).

HDMI device



HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

- [1] HDMI = High-Definition Multimedia Interface.
- [2] DVI = Digital Video Interface.
- [3] HDCP = High-bandwidth Digital Content Protection.
- [4] EIA/CEA-861/861B compliance covers the transmission of uncompressed digital video with highbandwidth digital content protection, which is being standardized for reception of high-definition video signals.

Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

- When turning on your electronic components, turn on the TV first, and then the HDMI or DVI device.
 When turning off your electronic components. turn
- off the HDMI or DVI device first, and then the TV.

To connect a DVI device, you will need: • one HDMI-to-DVI adapter cable

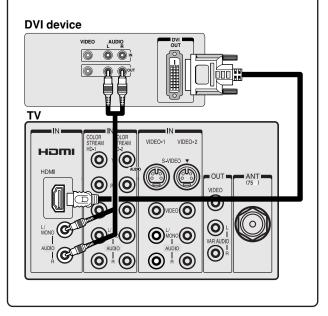
(HDMI type A connector)

For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).

· one pair of standard analog audio cables

An HDMI-to-DVI adapter cable transfers only video. Separate analog audio cables are required (see illustration below).

You must set the HDMI setting to DVI in the AUDIO menu (see page 41).



14

Connecting your TV

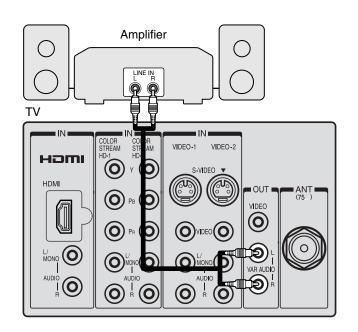
Connecting an audio system

This connection allows you to adjust the audio level by using the TV's remote control.

To control the audio, turn on the TV and the stereo amplifier, and turn off the built-in speakers (see "Turning off the built-in speakers" on page 40).

Note:

To hear sound when using an external audio amplifier, the volume of both the TV and the amplifier must be set above 0 (zero). For example, if the volume of the TV is set to 0, you will not be able to hear any sound, even the volume of the amplifier is at its highest level.



You will need: • one pair of standard audio cables Important Safeguards

Appendix

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Using the remote control

Preparing the remote control for use

With the remote control, you can operate your TV, most cable TV converters/satellite receivers, VCR and DVD player models together, even if they are different brands. If you will be using your TV with a Toshiba satellite receiver, VCR or DVD player, your remote control is already programmed and ready to use. If you own different brands of cable TV converters/satellite receivers, VCRs and/or DVD players, you first have to program your remote control. (See "Programming the remote control for use with a cable TV converter/satellite receiver, VCR or DVD player" on page 17.)

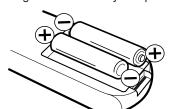
Installing the remote control batteries

To install the batteries:

1. Open the battery cover on the back of the remote control.



2. Install two "AA" size batteries. Match the + and – signs on the batteries to the signs on the battery compartment.



Note:

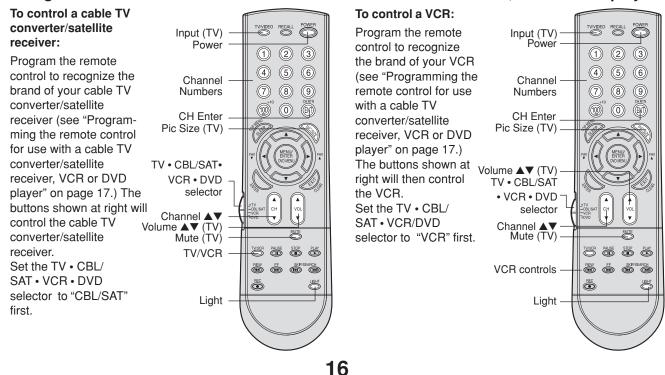
The TV remote control may or may not operate your cable TV converter/satellite receiver, VCR or DVD player. Refer to the owner's manuals supplied with the equipment to see which features are available. In addition, the original controllers may have features not available on this remote control. If you would like to continue to use these features, you may want to use the original remote control.

Cautions:

- Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.
- Do not mix battery types or combine used batteries with new ones.
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- If you do not intend to use the remote control for a long time, remove the batteries.

3. Close the battery cover on the remote control until the lock snaps.

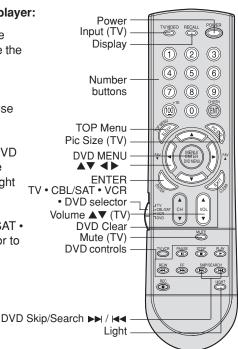
Using the remote control with a cable TV converter/satellite receiver, VCR or DVD player



Using the Remote Cont

To control a DVD player:

Program the remote control to recognize the brand of your DVD player (see "Programming the remote control for use with a cable TV converter/satellite receiver, VCR or DVD player" below). The buttons shown at right will then control the DVD player. Set the TV • CBL/SAT • VCR • DVD selector to "DVD" first.



Programming the remote control for use with a cable TV converter/satellite receiver, VCR or DVD player

This remote control is pre-programmed to operate Toshiba satellite receivers, VCRs and DVD players. To control cable TV converters/ satellite receivers, VCRs and DVD players other than Toshiba models, you must follow the steps below to program your remote control.

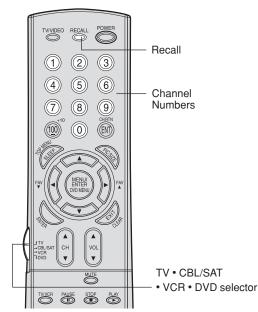
- Refer to the code tables (on pages 18 and 19) to find the corresponding code for your brand.
 If more than one code is listed, try each one separately until you find the one that works.
- If you are programming the remote control to operate your:
 Cable TV converter/satellite receiver: Set theTV CBL/ SAT • VCR • DVD selector to "CBL/SAT."
 - VCR: Set the TV CBL/SAT VCR DVD selector to "VCR."
- DVD player: Set the TV CBL/SAT VCR DVD selector to "DVD."
 While holding down RECALL, press the Channel Number buttons to enter the three-digit code for your cable TV converter/satellite receiver, VCR or DVD player brand.
- 4. Point the remote control at the cable TV converter/satellite
 - receiver, VCR or DVD player, and press POWER to test the code.
 If the cable TV converter/satellite receiver, VCR or DVD player responds, you entered the correct code.
 - If the cable TV converter/satellite receiver, VCR or DVD player does not respond, repeat steps 1–4 using another code.
 - Set the TV CBL/SAT VCR DVD selector to "TV" to control the TV.
- For future reference, write down the codes you used:

Cable TV converter/satellite receiver code _____

VCR code

5.

DVD player code



Notes:

- When shipped from the factory, the remote control is set to operate your TV.
- If you do not enter the code within 10 seconds from step 1 or if you enter a code not listed below, this operation is canceled.
- Each time you replace the batteries, you must reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch and does not respond to any of the codes for your VCR, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

nt Welcome to Connec rds Toshiba your 1



Setting up your TV

> Using the TV⁷ Features



17

17

Cable TV converter/satellite receiver, VCR and DVD player code tables [For CBL/SAT Mode] CABLE Box

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Brand	Code	Brand	Code	Brand	Code
ABC	061, 062, 063, 082,	Jerrold	062, 069, 071, 082,	Scientific Atlanta	063, 078, 079, 08
	084, 087, 091, 092,		086, 089, 091, 096	-	088, 098, 101, 10
	096, 098	Magnavox	072, 096	Sears	095
Archer	065, 092, 097, 099	Memorex	091, 092, 104	Signature	062
Cableview	064, 094	Multi Canal	090	Signature 2000	096
Century	092	Novavision	101	Sprucer	081,085
Citizen Contec	090, 092, 097 083, 085, 086, 088,	Panasonic Philco	081, 083, 085 087	Starcom	069, 082, 087, 09 103, 104
Contec	093, 098	Philips	066, 067, 068, 070,	Stargate	069, 090
Diamond	093	1 mipo	072, 073, 074, 075,	Sylvania	095, 100
Eagle	091		091, 092	TeleView	090
GE	061, 062	Pioneer	076, 077	Texscan	100
Gemini	069, 070, 094	Proscan	061, 062	Tocom	071, 084, 085
General Instruments	062, 089, 096	Radio Shack	092, 097, 099	U. S. Electronics	087, 096, 098
Hamlin	093	RCA	064, 081	United Cable	082
Hitachi	062, 095, 096	Realistic	065	Universal	065, 092, 097, 09
Jasco	097	Recoton	102		102, 103
o		Samsung	077, 090	Wards	096
Satellite		[
Brand	Code	Brand	Code	Brand	Code
Alphastar	038, 059	Hughes Network	019	Realistic	030
Chaparral	034	Systems	049	Samsung	059
DISH Network Drake	057 020, 040, 044, 046,	Intersat Janeil	048 027	Sony Star Choice	014, 055 057
Diake	050, 053	JVC	017, 057	Star Trak	025, 026, 037, 054
Echostar	018, 041, 051	Kenwood	029	STS	024
Express Vu	057	Magnavox	060	Toshiba	000, 001, 002, 003
Fujitsu	027	Optimus	058		004, 005, 006, 00
GE Conorol Instrumento	008, 009, 013	Pansat	036, 052	Linidan	020, 031, 056
General Instruments	010, 011, 012, 022, 023, 031, 049	Primestar Proscan	015, 042 008, 009, 013	Uniden	021, 028, 030, 03 035, 039, 043, 04
L PA I- 1			000, 000, 010		
Hitachi	033	Radio Shack	022, 023, 030		047, 058
Hitachi Hughes	033	Radio Shack RCA	022, 023, 030 008, 009, 013, 016	Zenith	047, 058 027
	033			Zenith	
Hughes [For VCR Mo	033			Zenith	
Hughes [For VCR Moo VCR	033 de]	RCA	008, 009, 013, 016		027
Hughes [For VCR Moo VCR Brand	033 de] Code	RCA Brand	008, 009, 013, 016	Brand	027 Code 005, 006, 007, 012
Hughes [For VCR Moo VCR Brand Admiral	033 de] Code 049	RCA Brand Fuji	008, 009, 013, 016 Code 004, 041	Brand	027 Code 005, 006, 007, 012 014, 026, 053, 067
Hughes [For VCR Moo VCR Brand Admiral Aiko	033 de] Code 049 019 018 003, 004, 037, 038,	RCA Brand Fuji Funai	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040,	Brand Marantz	027 Code 005, 006, 007, 012 014, 026, 053, 067 007, 009, 010, 016 018, 034, 049, 063
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069	RCA Brand Fuji Funai Garrard GE	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056	Brand Marantz	027 Code 005, 006, 007, 012 014, 026, 053, 067 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 075
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Aiwa Akai Audiovox	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010	RCA Brand Fuji Funai Garrard GE Go Video	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081	Brand Marantz Memorex	027 Code 005, 006, 007, 012 014, 026, 053, 061 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 075 079
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Aiwa Akai Audiovox Bell & Howell	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068	RCA Brand Fuji Funai Garrard GE	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054,	Brand Marantz Memorex MGA	027 Code 005, 006, 007, 012 014, 026, 053, 061 007, 009, 010, 010 018, 034, 049, 062 065, 066, 068, 073 079 020, 028, 039
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017	RCA Brand Fuji Funai Garrard GE Go Video Goldstar	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 005, 065, 067	Brand Marantz Memorex MGA MGN	027 Code 005, 006, 007, 012 014, 026, 053, 065 007, 009, 010, 016 018, 034, 049, 066 065, 066, 068, 073 079 020, 028, 039 056
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Aiwa Akai Audiovox Bell & Howell	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068	RCA Brand Fuji Funai Garrard GE Go Video	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054,	Brand Marantz Memorex MGA	Code 005, 006, 007, 012 014, 026, 053, 065 007, 009, 010, 016 018, 034, 049, 062 065, 066, 068, 078 079 020, 028, 039 056 024, 025, 035, 063
Hughes [For VCR Moo VCR Brand Admiral Aiko Aika Aika Akai Audiovox Bell & Howell Broksonic Calix Carver CCE	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037,	Brand Marantz Memorex MGA MGN Minolta Mitsubishi	027 Code 005, 006, 007, 012 014, 026, 053, 067 007, 009, 010, 010 018, 034, 049, 063 065, 066, 068, 079 020, 028, 039 056 024, 025, 035, 066 020, 024, 025, 024 039, 043, 065
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012,	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward	027 Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 075 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028 039, 043, 065 049
Hughes [For VCR Moo VCR Brand Admiral Aiko Aika Aika Akai Audiovox Bell & Howell Broksonic Calix Carver CCE	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019,	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola	027 Code 005, 006, 007, 012 014, 026, 053, 061 007, 009, 010, 014 018, 034, 049, 063 065, 066, 068, 075 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028 039, 043, 065 049 049
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008,	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC	027 Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 066 065, 066, 068, 079 079 020, 028, 039 056 024, 025, 035, 065 024, 025, 035, 065 049 049 009, 046, 061
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024,	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech	027 Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 073 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028 039, 043, 065 049 049 009, 046, 061 009, 012, 018
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008,	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC	027 Code 005, 006, 007, 012 014, 026, 053, 06 007, 009, 010, 010 018, 034, 049, 063 065, 066, 068, 073 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 025 039, 043, 065 049 049 049 049 009, 046, 061 009, 012, 018 005, 006, 007, 012
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012,	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen	008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC	027 Code 005, 006, 007, 012 014, 026, 053, 067 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 079 020, 028, 039 056 024, 025, 035, 066 020, 024, 025, 024 039, 043, 065 049 049 049 049 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 053 054, 067, 070
Hughes [For VCR Moo VCR Brand Admiral Adiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053,	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney	Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014,	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko	Code 005, 006, 007, 012 014, 026, 053, 06 007, 009, 010, 010 018, 034, 049, 063 065, 066, 068, 073 079 020, 028, 039 056 024, 025, 035, 063 029, 043, 065 049 049 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 053 054, 067, 070 010
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen	Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063,	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC	Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 066 065, 066, 068, 073 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 025 049 049 049 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 053 054, 067, 070 010 009
Hughes [For VCR Moo VCR Brand Admiral Adiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017,	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC	Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus	Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 063 066, 066, 068, 073 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 025 049 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 053 054, 067, 070 010 009 010, 049, 065
Hughes [For VCR Mor VCR Brand Admiral Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen	Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012,	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC	O27 Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 079 020, 028, 039 056 020, 028, 039 056 020, 024, 025, 035, 063 020, 024, 025, 035, 063 020, 024, 025, 024 039, 043, 065 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 053 054, 067, 070 010 009 010, 049, 065 031
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC	Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optimus Optimus	O27 Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 079 020, 028, 039 056 020, 028, 039 056 020, 024, 025, 035, 063 020, 024, 025, 035, 063 020, 024, 025, 024 039, 043, 065 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 053 054, 067, 070 010 009 010, 049, 065 031
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak	Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 005, 010, 014, 054, 005, 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 010	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optimus Optimus	Code 005, 006, 007, 012 014, 026, 053, 06 007, 009, 010, 010 018, 034, 049, 063 065, 066, 068, 073 079 020, 028, 039 056 024, 025, 035, 063 029, 024, 025, 025 039, 043, 065 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 053 054, 067, 070 010 009 010, 049, 065 031 054, 057, 062, 063 068, 072 036, 045, 046, 057
Hughes [For VCR Moo VCR Brand Admiral Adixa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia Electrohome	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048 010, 020, 065	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak LG	Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 010	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Orion Panasonic	Code 005, 006, 007, 011 014, 026, 053, 06 007, 009, 010, 010 018, 034, 049, 065 065, 066, 068, 073 079 020, 028, 039 056 024, 025, 035, 065 049 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 055 054, 067, 070 010 009 010, 049, 065 031 054, 057, 062, 063 068, 072 036, 045, 046, 057 061, 072, 079
Hughes [For VCR Moo VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048 010, 020, 065 003, 008, 010, 011,	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak LG Lloyds	Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 010 053, 073, 079	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Orion	Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 063 066, 066, 068, 073 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028 039, 043, 065 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 053 054, 067, 070 010 009 010, 049, 065 031 054, 057, 062, 063 068, 072 036, 045, 046, 053 061, 072, 079 012, 024, 025, 035
Hughes [For VCR Moo VCR Brand Admiral Adixa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia Electrohome	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 003 001, 048 010, 020, 065 003, 008, 010, 011, 017, 018, 020, 028,	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak LG Lloyds Logik	008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 010 053, 073, 079 061	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Orion Panasonic Pentax	Code 005, 006, 007, 012 014, 026, 053, 065 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 075 079 020, 028, 039 056 020, 028, 039 056 020, 024, 025, 035, 063 029, 043, 065 049 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 055 054, 067, 070 010 009 010, 049, 065 031 054, 057, 062, 068 068, 072 036, 045, 046, 055 031 054, 057, 062, 068 068, 072 036, 045, 046, 055 031 054, 057, 062, 068 068, 072 036, 045, 046, 055 031, 054, 057, 062, 068 042, 053, 063
Hughes [For VCR Moo VCR Brand Admiral Adixa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia Electrohome	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048 010, 020, 065 003, 008, 010, 011, 017, 018, 020, 028, 039, 054, 057, 062,	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak LG Lloyds Logik LXI	Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 071 010 010 010 010	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Optonica Optonica Panasonic Pentax Pentex Research	Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 073 079 020, 028, 039 056 024, 025, 035, 063 029, 043, 065 049 049 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 053 054, 057, 062, 063 054, 057, 062, 063 068, 072 036, 045, 046, 055 061, 072, 079 012, 024, 025, 033 042, 053, 063 014
Hughes [For VCR Moo VCR Brand Admiral Adixa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia Electrohome	033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 003 001, 048 010, 020, 065 003, 008, 010, 011, 017, 018, 020, 028,	RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak LG Lloyds Logik	008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 010 053, 073, 079 061	Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Orion Panasonic Pentax	Code 005, 006, 007, 012 014, 026, 053, 063 007, 009, 010, 016 018, 034, 049, 063 065, 066, 068, 073 079 020, 028, 039 056 020, 028, 039 056 020, 024, 025, 035, 063 029, 043, 065 049 049 009, 046, 061 009, 012, 018 005, 006, 007, 012 014, 037, 043, 055 054, 067, 070 010 009 010, 049, 065 031 054, 057, 062, 068 068, 072 036, 045, 046, 055 031 054, 057, 062, 064 054, 057, 062, 065 031 054, 057, 062, 065 036, 045, 046, 055 031 054, 057, 062, 064 056, 045, 046, 055 031, 072, 079 036, 045, 046, 055 042, 053, 063

Using the Remote Control

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VCR (Continued)

VCR (Conti	nued)				
Brand	Code	Brand	Code	Brand	Code
Portland Proscan Proton Quasar Radio Shack Radio Shack/	012, 013, 015 001, 002, 048 061 045 010, 031, 065 007, 009, 010, 016,	Sanyo Scott Sears	007, 009, 016, 054, 064, 068, 071, 075, 079, 085 008, 011, 017, 028, 030, 057, 065, 072 007, 010, 016, 021,	Tashiko Tatung Teac Technics Teknika Toshiba	010 037 018, 029, 037 036 010, 018, 065 000, 011, 021, 023,
Realistic Radix RCA	018, 020, 021, 022, 031, 049 010 001, 002, 003, 009, 024, 025, 029, 035, 040, 042, 045, 048, 055, 056, 063, 071.	Sharp	022, 023, 024, 025, 035, 053, 057, 063, 064, 065, 068, 071, 075, 079 013, 020, 031, 049, 051, 060, 066 004, 025, 032, 061	Totevision Unitec Unitech Vector Research	024, 028, 030, 039, 057, 074, 078, 079 009, 010, 065 073 009 005, 006, 011, 012, 053
Realistic	083 007, 009, 010, 011, 016, 018, 020, 021, 022, 031, 049, 051, 056, 060, 065, 075, 079	Signature Signature 2000 Singer Sony	049 075 047, 061 004, 032, 033, 041, 052, 058, 070, 074, 076, 077, 080	Video Concepts Wards	005, 006, 011, 012, 039, 053 009, 010, 011, 016, 018, 020, 024, 025, 031, 035, 049, 051, 056, 057, 060, 065,
Ricoh Runco	047 034	STS Sylvania	035	White Westinghouse	066, 079 073
Samsung	009, 011, 038, 056,		018, 026, 027, 028, 044, 072	White Westinghouse XR-1000	018
-	073, 084 006, 037, 043, 061	Symphonic	018, 051, 053, 073, 079	Yamaha	005, 006, 007, 014,
Sansui	000, 037, 043, 001	Tandy	079	Zenith	037, 053 004, 032, 034, 041,
TV/VCR Co	mbo	I		1	047, 069, 086
Brand	Code	Brand	Code	Brand	Code
Action	078	Precision	078	Toshiba	057
GE	059, 062	Quasar	065	Zenith	065
Goldstar Panasonic	065 065	Realistic Sony	079 074	Totevision	009, 010, 065
[For DVD M DVD Brand	Code	Brand	Code	Brand	Code
Aiwa	006, 015	Kenwood	037	Sampo	060
Apex	016, 017	Konka	008, 009	Samsung	061, 062, 086, 090
BOSE	097	Magnavox	004, 038 039	Sansui	073
Broksonic Clarion	018 019	Memorex Mintek	039	Sanyo Sharp	063, 091 064, 067
Classic	020	NAD	026	Sherwood	074
Daewoo	021	Nakamichi	041	Sony	011, 012, 065, 066,
Denon Emerson	022, 023, 024, 025 026, 027	Norcent Onkyo	043 044	Sylvania	068, 069, 070 027
Fisher	028	Oritron	058	Téac	071
Funai	027	Panasonic	010, 045, 046, 047,	Technics	072
GE Go Video	001, 029, 030 087	Philips	048, 049, 050 004, 051	Techwood Toshiba	075 000, 013, 076, 077,
GPX	031	Pioneer	052, 053, 054, 055		078
Hitachi	005, 032, 033, 034, 035	Proscan Qwestar	001, 056 057, 058	Yamaha Zenith	079, 080, 081 014, 082, 092
JVC	003, 007, 036, 042,	RCA	001, 002, 059, 089		0.7,002,002
Portable D\	088 /D	1		1	
				1	
Brand	Code	Brand	Code	Brand	Code
Brand		Brand Panasonic	Code 024,096,099	Brand RCA	Code 098
Brand Aiwa	Code				
Brand Aiwa Audiovox	Code 093				
Brand Aiwa Audiovox	Code 093				
Brand Aiwa Audiovox HTIB	Code 093 094, 095	Panasonic	024,096,099	RCA	098
Brand Aiwa Audiovox HTIB Brand Lasonic [For VCR at	Code 093 094, 095 Code 083 nd DVD Mode]	Panasonic Brand	024,096,099 Code	RCA Brand	098 Code
Brand Aiwa Audiovox HTIB Brand Lasonic [For VCR and DVD/VCR C	Code 093 094, 095 Code 083 nd DVD Mode] combo	Panasonic Brand Panasonic	024,096,099 Code 084	RCA Brand Venturer	098 Code 085
Brand Aiwa Audiovox HTIB Brand Lasonic [For VCR al DVD/VCR C Brand	Code 093 094, 095 Code 083 nd DVD Mode] combo VCR Code	Panasonic Brand Panasonic DVD Code	024,096,099 Code 084 Brand V	RCA Brand Venturer	098 Code 085 DVD Code
Brand Aiwa Audiovox HTIB Brand Lasonic [For VCR al DVD/VCR C Brand Go Video JVC	Code 093 094, 095 Code 083 nd DVD Mode] combo VCR Code 081 082	Panasonic Brand Panasonic	024,096,099 Code 084 Brand V Samsung 0 Sanyo 0	RCA Brand Venturer	098 Code 085 DVD Code 090 091
Brand Aiwa Audiovox HTIB Brand Lasonic [For VCR at DVD/VCR C Brand Go Video	Code 093 094, 095 Code 083 nd DVD Mode] combo VCR Code 081	Panasonic Brand Panasonic DVD Code 087	024,096,099 Code 084 Brand V Samsung 00 Sanyo 00	RCA Brand Venturer /CR Code 84	098 Code 085 DVD Code 090

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Important Safeguards

Welcome to Toshiba

Connecting your TV

Using the Remote Control

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Appendix

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Learning about the remote control

POWER turns the TV on and off

Sleep programs the TV to turn off at a set time (page 37)

TV/Video selects the video input source (page 27)

Channel \blacktriangle and \triangledown cycles through programmed channels (page 23)

TV • CBL/SAT • VCR • DVD select TV, CABLE/SATELLITE, VCR or DVD mode (page 16)

Channel Numbers allow direct access to channels (page 23)

Volume ▲ and ▼ adjusts the volume level

Channel Return returns to the last viewed channel (page 23)

Menu/Enter allows access to programming menus, and sets programmed menu information (page 21)

Favorite Channels \blacktriangle and \blacktriangledown cycle through favorite channels (page 23)

Mute turns off the sound (page 38)

Recall displays status information on-screen (page 25)

Exit exits programming menus (page 21)

Picture Size cycles through the five picture sizes: Natural, Theater Wide 1, 2, 3, and full (page 31)

Light lights all keypads for 5 seconds. The lighting time is extended for 5 seconds by pushing one of keys.

Stop stops a videotape/DVD

Rec starts recording a videotape

Play plays a videotape/DVD

FF fast forwards a videotape/DVD

Rew rewinds a videotape/DVD

Pause pauses a videotape/DVD

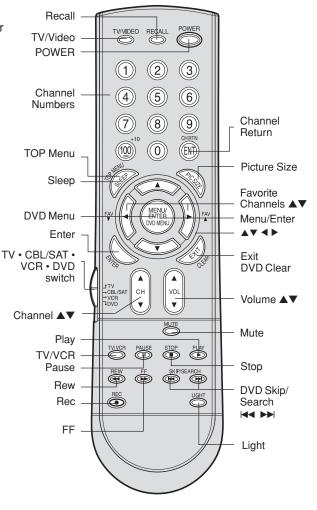
 $\ensuremath{\text{TV/VCR}}$ toggles between TV and VCR modes when viewing while recording

DVD Skip/Search >> I << skips DVD chapter

DVD Clear clears input data in DVD mode

TOP Menu allows access to DVD TOP menu

DVD Menu allows access to DVD menu



Contro

Starting up your TV

Starting setup

The STARTING SETUP function makes installing your unit easily. It leads you the Language selection, TV/CABLE selection and auto channel memory automatically.

IMPORTANT: Make sure that the antenna or cable TV system connection is made!

 Press POWER. The starting setup function begins and the Language setup menu appears on the screen. Press ▲ or ▼ to select your desired language, then press ENTER.



- Press ▲ or ▼ to select "TV" or "CABLE", then press ENTER.
- 3. Press ▲ or ▼ to select "START", then press ENTER. If you select "CANCEL" and press ENTER, the STARTING SETUP stops and changes to the TV screen.
- 4. Now the "AUTO SETUP" starts. After the starting setup is completed, the TV channel appears on the screen.
 - If you press the EXIT button in the process of "AUTO SETUP" the STARTING SETUP stops and changes to the TV screen.
 - The starting setup function will work only when you press the POWER button for the first time.

Setting up your TV

After you have installed the batteries and programmed the remote control, you need to set some preferences on the TV using the menu system. You can access the menu system with the buttons on the remote control.

- When you make a menu selection, your changes occur immediately. You do not have to press MENU or EXIT to see your changes.
- After one minute, the menu screen will automatically close if you do not make a selection. Your changes will still be saved.
- When you are finished programming the menus, press EXIT.

Changing the on-screen display language

You can choose from three different languages (English, French and Spanish) for the on-screen displays. Adjustment menus and messages will appear in the language of your choice.

To select a language:

1. Press MENU, then press ◀ or ▶ until the SETUP menu appears.



2. Press \blacktriangle or \blacktriangledown to highlight LANGUAGE.



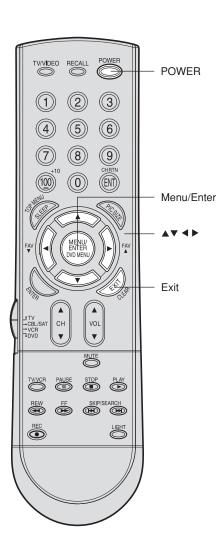
3. Press ◀ or ► to highlight your desired language.

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Image tilt correction

When you install or change the direction of the TV, the picture may become tilted (caused by the Earth's magnetism). If this happens, use the image tilt correction feature to obtain the best possible picture.

To adjust the image tilt:

- 1. Press MENU, then press ◀ or ► until the SETUP menu appears.
- Press ▲ or ▼ to highlight IMAGE TILT.



 Press ◀ or ► to adjust the picture tilt (from -10 to +10).

Adding channels to the TV's memory

Your TV will stop on specific channels that are stored in the TV's channel memory when you press Channel \blacktriangle or \blacktriangledown . Use the steps below to set all active channels in your area automatically.

Programming channels automatically

Your TV can automatically detect all active channels and store them in its memory. After the TV has stored the channels in its memory automatically, you can add or erase channels manually.

To add channels automatically:

- 1. Press MENU, then press ◀ or ► to display the SETUP menu.
- 2. Press \blacktriangle or \blacktriangledown until the TV/CABLE
- selection is highlighted.
 Press ◄ or ► to highlight either TV or CABLE, depending on which you use. If you use an antenna, choose TV. If you use cable, choose CABLE.



- 4. Press ▼ until the CH PROGRAM selection is highlighted.
- 5. Press ◀ or ► to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory. While the TV is cycling through the channels, the message "PROGRAMMING NOW-PLEASE WAIT" appears.
- 6. When channel programming is complete, the message "COMPLETED" appears.
- 7. Press CH \blacktriangle or \blacktriangledown to view the programmed channels.

Adding and erasing channels manually

After you have programmed the channels automatically, you can add or erase specific channels manually.

To add or erase channels manually:

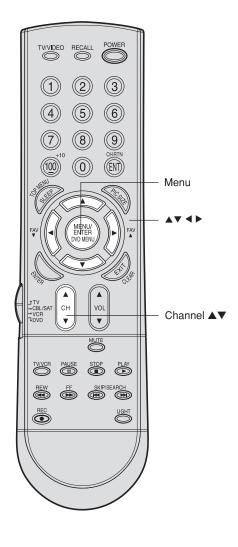
- 1. Select the channel you want to add or erase. If adding channels, you must select the channel to add using
- the Channel Number buttons. 2. Press MENU, then press ◀ or ► to

ERASE.

a display the SETUP menu.
 Press ▲ or ▼ to highlight ADD/



- 4. Press ◀ or ► to select ADD or
 - ERASE, whichever function you want to perform.
- 5. Repeat steps 1-4 for other channels you want to add or erase.



Changing channels

To change to the next programmed channel:

Press Channel \triangledown or \blacktriangle on the TV or CH \blacktriangle or \triangledown on the remote control.

To change to a specific channel (programmed or unprogrammed): Press the Channel Number buttons (0-9 and 100) on the remote control.

For example, to select channel 125, press 100, 2, 5.

Using the TV's features

Adjusting the channel settings

Switching between two channels

You can switch between two channels without entering an actual channel number each time.

To switch between two channels:

- 1. Select the first channel you want to view.
- 2. Select a second channel using the Channel Number buttons (0-9, 100).

3. Press CH RTN. The previous channel will be displayed. Each time you press CH RTN, the TV will switch back and forth between the two channels.

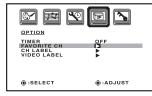
Programming your favorite channels

You can preset up to 12 of your favorite channels using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

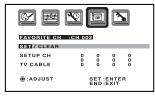
You can still use Channel \blacktriangle / \blacktriangledown to scan through all the channels you programmed in the TV's memory.

To program your favorite channels:

- 1. Select a channel you want to program.
- 2. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the OPTION menu.
- 3. Press ▲ or ▼ to highlight FAVORITE CH.



4. Press ◀ or ► to display the FAVORITE CH menu. SET/CLEAR will be highlighted.



- 5. Press ◀ or ► to highlight SET and press ENTER.
- 6. Press EXIT to return to normal viewing.
- 7. Repeat steps 1-6 for up to 11 other channels.

To select your favorite channels:

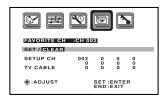
Press the FAV $\blacktriangle \lor$ buttons on the remote control to select your favorite channels.

The FAV $\blacktriangle \bigtriangledown$ buttons will not work until you have programmed your favorite channels.

00 (1)(2) (3) Channel (5) (6) Numbers (4)(7)(8) (9) (100) (0)(ENT) CH BTN C₽ Channel ▲▼ • . MUTE RECALL (1)(2) (3) 20 Cont Channel the (4)(5) (6) Numbers fro $\overline{7}$ (8) (9) (100) (0)(ENT) Menu/ Enter FAV V Exit C⊧ Channel **V** . ▼ Using the TV's ppendix

To clear your favorite channels:

- 1. Select a channel you want to clear.
- 2. Press MENU, then press ◀ or ► to display the OPTION menu.
- 3. Press ▲ or ▼ to highlight FAVORITE CH.
- 5. Press ◀ or ► to highlight CLEAR.



- 6. Press ENTER until "0" replaces the channel number you want to erase.
- 7. Press EXIT to return to normal viewing.
- 8. Repeat steps 1-6 for the other channels.

Using the LOCKS menu

The V-Chip feature is available only for the U.S. V-Chip system. The Canadian V-Chip system is not supported.

You can prevent others from viewing certain programs or channels by blocking them using the V-Chip feature.

Selecting a password

Before you can block programs and channels, you must select a password. The password you select prevents others from changing the rating limits you set.

To select your password and access the LOCKS menu:

- 1. Press MENU, then press ◀ or ► to highlight the LOCKS menu.
- 2. Press \blacktriangle or \blacksquare to display the password entering mode.

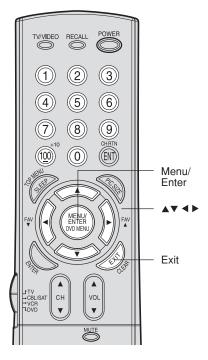


3. Use the Channel Number buttons (0-9) to enter your password. If you are accessing the V-Chip menus for the first time, select a four-digit number to be your password. Press ENTER.



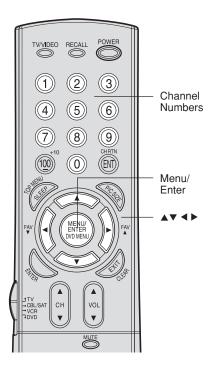
4. Enter the same password for safety, then press ENTER. The LOCKS menu appears.





Note:

The password you programmed is also used in the LOCKS menu; see pages 26-28.



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5. You may now enable LOCKS menu. See "Using the V-Chip (parental control) feature" (below), "Locking channels" (page 26), "To change your password" (below), "Locking video input" (page 27), "Setting the game timer" (see page 27) or "Using the front panel lock feature" (page 28).

To change your password:

- 1. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 2. Press \blacktriangle or \triangledown to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password. Press ENTER. The LOCKS menu appears.
- 4. Press ▲ or ▼ to highlight NEW PASSWORD and press ◀ or ► to display the NEW password menu.
- 5. Use the Channel Number buttons (0-9) to enter a new code. Press ENTER.
- 6. Enter the same password for safety, then press ENTER.
- 7. Press EXIT to return to normal viewing.

Using the V-Chip (parental control) feature

The Motion Picture Association of America (MPAA) uses a rating system to gualify motion picture content. Television broadcasters employ a rating system to qualify the content of television programs, as well. The TV and MOVIE ratings work with the V-Chip feature and allow you to block programs according to the rating limits you set.

To use the V-Chip to block programs by rating:

- 1. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 2. Press \blacktriangle or \checkmark to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password. Press ENTER. The LOCKS menu appears.
- 4. Press \blacktriangle or \blacktriangledown to highlight V-CHIP. Press ◀ or ► to highlight ON to
- enable V-Chip program blocking by rating. Press ◀ or ▶ to highlight OFF to
- disable V-Chip program blocking by rating.
- 5. Press ▲ or ▼ to highlight TV RATING. Then, press ◀ or ► to display the desired rating.
 - OFF : TV RATING is not set
 - : All children TV-Y
 - TV-Y7 : 7 years old and above
 - TV-G : General Audience
 - TV-PG : Parental guidance
 - TV-14 : 14 years old and above
 - TV-MA : 17 years old and above
 - When you select TV-Y7, TV-PG, TV-14 or TV-MA, press RECALL to explain the rating. Press \blacktriangle or \blacksquare to select the desired rating you want. Press ◀ or ▶ to select the setting "ON" or "OFF".
- 6. Press ▲ or ▼ to highlight MOVIE RATING. Then, press \blacktriangleleft or \blacktriangleright to
 - LOCKS display the desired rating. V-CHIP SET V-CHIP TV RATING OFF : MOVIE RATING is not set MOVIE RATING OFF OFF / G / PG-13 / R / NC17 / X G : All ages . :SELECT PG : Parental guidance PG-13 : Parental guidance less than 13 years old
 - : Under 17 years old
 - Parental guidance suggested
 - **NC17** : 17 years old and above Х





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/ TV-Y7 / TV-G -14 / TV-MA

(i):ADJUST

MOVIE RATING

C e

V-CHIP SET V-CHIP TV RATING

• SELECT

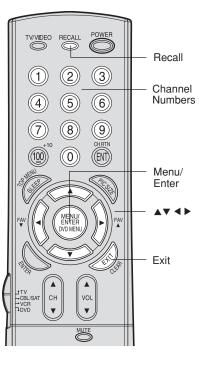
P

ON TV-PG

(i):ADJUST

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LOCKS





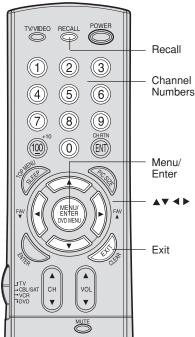
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Note:

If you forget your password, press RECALL four times within five seconds from the password entering mode. This allows you to resets your password.



Using the TV's eatures

Appendix

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7. When you are done selecting the ratings, press EXIT to return to normal viewing.

When you try to view a program with a ratings block, a message will appear listing the program's ratings. The program can still be viewed if you press MUTE and then enter your password to temporarily bypass the block.

Locking channels

With the CH LOCK feature, you can lock specific channels. You will not be able to tune locked channels unless you clear the setting. You can choose to lock up to nine TV channels and nine cable channels.

To lock channels:

- 1. Use the Channel Number buttons (0-9) to display the television channel you wish to lock.
- 2. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 3. Press \blacktriangle or \triangledown to display the password entering mode.
- 4. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears. ЪЧ 9 F

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LOCK CH LOCK VIDEO LOCK

S E

CH LOCK

SET / CLE/ SET UP CH TV CABLE

.ADJUST

GAME TIMER

FRONT PANEL LOCK NEW PASSWORD ():SELECT

OFF

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0 0 0 0 0 0 0 0 0

SET :ENTER

H 002

SET /

OFF ▶ @i:ADJUST

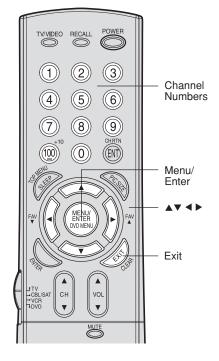
- 5. Press ▲ or ▼ to highlight CH LOCK and press ◀ or ► to display the CH LOCK menu.
- 6. Press ◀ or ► to select the following:
- SET- to set the channel as one to be locked. Then press ENTER.
- CLEAR- to clear all channels from the list of locked channels. Then press ENTER.
- 7. Repeat steps 1 through 6 to lock other channels. When you are

finished locking channels, press EXIT to return to normal viewing. If you try to tune a locked channel, the TV will not display it, but will display the nearest unlocked channel.

To unlock channels:

- 1. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 2. Press \blacktriangle or \blacksquare to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 4. Press ▲ or ▼ to highlight CH LOCK and press ◀ or ► to display the CH LOCK menu.
- 5. Press ◀ or ▶ to highlight CLEAR and clear all channels from the list of locked channels. Press ENTER.
- 6. Press EXIT to return to normal viewing.





Note:

After programming CH LOCK, change channels before turning off the television.

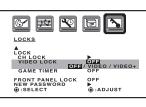
Locking video input

With the VIDEO LOCK feature, you can lock out the input sources (VIDEO1, VIDEO2, VIDEO3, COLORSTREAM HD1, COLORSTREAM HD2, HDMI) and channels 3 and 4.

You will not be able to select the input sources with the TV/VIDEO button or Channel buttons unless you clear the setting.

To set up the video lock:

- 1. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the LOCKS menu.
- 2. Press \blacktriangle or \blacktriangledown to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 4. Press \blacktriangle or \blacktriangledown to highlight VIDEO LOCK.
- 5. Press ◀ or ► to select:
 - OFF: Unlocks all video input sources.VIDEO: Locks VIDEO1, VIDEO2,
 - VIDEO3 and COLORSTREAM HD1, COLORSTREAM HD2,
 - HDMI. • VIDEO +: Locks VIDEO1, VIDEO2, VIDEO3, COLORSTREAM HD1,



COLORSTREAM HD2, HDMI, channel 3 and channel 4. This option should be used if you use the antenna terminal to play a video tape.

7. Press EXIT to return to normal viewing.

To unlock video input:

- 1. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 2. Press \blacktriangle or \blacksquare to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 4. Press ▲ or ▼ to highlight VIDEO LOCK and press ◀ or ► to highlight OFF.
- 5. Press EXIT to return to normal viewing.

Setting the game timer

With the GAME TIMER feature, you can automatically activate the VIDEO LOCK feature (VIDEO setting) to set a time limit for playing a TV game (30, 60, 90 or 120 minutes).

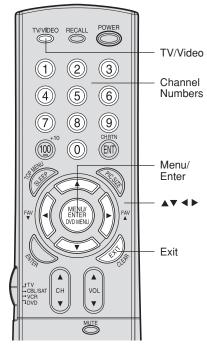
To set up the game timer:

- 1. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 2. Press \blacktriangle or \triangledown to display the password entering mode.
- Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- Press ▲ or ▼ to highlight GAME TIMER.
- 5. Press ◀ or ▶ to select a time limit (30 minutes, 60 minutes, 90 minutes, 120 minutes or OFF).
- 6. Press EXIT to return to normal viewing. After the GAME TIMER is programmed, the display will

appear briefly every ten minutes to remind you that the GAME TIMER is operating. When the programmed time is reached, the display will change the

channel automatically.

COKS LOCKS LOCK VUEDOLOCK GAME TIMER GAME TIMER GAME TIMER GOV PAARE LOCK FROM PAARE LOCK GOV PAARE LOCK GOV PAARE LOCK GOV PARE LOCK



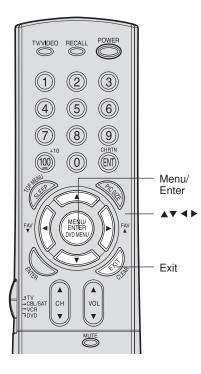
Important Safeguards

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your TV

Note:

After programming VIDEO LOCK, change channels or activate the TV/VIDEO key before turning off the television.



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Using the front panel lock feature

You can lock the front panel buttons to prevent your settings from being changed accidentally (by children, for example). When the front panel lock is in ON, all control buttons on the TV front panel (except POWER) do not operate.

To lock the front panel:

- 1. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 2. Press \blacktriangle or \blacksquare to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS
- menu appears.
 Press ◀ or ▶ to highlight FRONT PANEL LOCK and press ▲ or ▼ to highlight ON.
 If a button on the front panel is pressed, the message"Not Available" appears.



To unlock the front panel:

- 1. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 2. Press \blacktriangle or \triangledown to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- Press ◄ or ► to highlight FRONT PANEL LOCK and press ◄ or ► to highlight OFF, or press and hold the VOL ▼ button on the TV for about 10 seconds until the message "Front Panel Lock: Off" appears on the screen.

Labeling channels

Channel labels appear over the channel number display each time you turn on the TV, select a channel, or press the Recall button. You can choose any four characters to identify a channel.

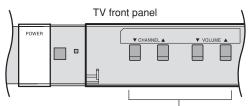
To create channel labels:

- 1. Select a channel you want to label.
- 2. Press MENU, then press \blacktriangleleft or \blacktriangleright until the OPTION menu appears.
- 3. Press ▲ or ▼ to highlight CH LABEL.
- Press ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.
- 5. Press \blacktriangleleft or \blacktriangleright to highlight SET.
- 6. Press \blacktriangle or \blacktriangledown to highlight LABEL.
- 7. Press ◀ or ▶ to enter a character in the first space. Press the button repeatedly until the character you want appears on the screen. Press ENTER.
- Repeat step 7 to enter the rest of the characters.
 If you would like a blank space in
 - the label name, you must choose an empty space from the list of characters; otherwise, a dash will appear in that space.
- 9. Repeat steps 1-8 for other channels. You can assign a label to each channel.
- 10. Press EXIT to return to normal viewing.

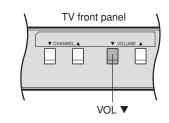


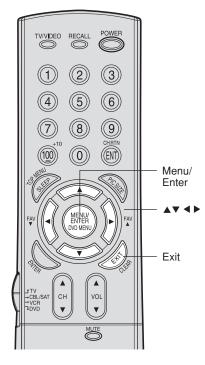






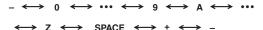






Note:

The character will change as below.



To erase channel labels:

- 1. Select a channel with a label.
- 2. Press MENU, then press ◀ or ► until the OPTION menu appears.
- 3. Press \blacktriangle or \blacktriangledown to highlight CH LABEL.
- 5. Press \triangleleft or \blacktriangleright to highlight CLEAR.
- 6. Press ENTER.
- Repeat steps 1-6 to erase other channel labels.

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Selecting the video input source

Press TV/VIDEO to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select ANT, VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, ColorStream HD2 or HDMI depending on which input jacks are used for connecting the devices (see "Connecting your TV" on page 7).



Pressing TV/VIDEO on the remote control displays the current signal source (press TV/ VIDEO again or 0-6 to change)

Labeling the video input sources

The video label feature allows you to label each input source for your TV from the following preset list of labels:

- : Uses the default label name
- VCR : Video cassette recorder
- DVD : DVD video
- **DTV** : Digital TV set-top box
- SAT : Satellite box
- CBL : Cable box

To label the video input sources:

- Press MENU, and then press ◀ or
 to display the OPTION menu.
- Press ▲ or ▼ to highlight VIDEO LABEL.
- 3. Press ► to display the VIDEO LABEL menu.
- 4. Press ▲ or ▼ to highlight the video source you want to label.
- 5. Press ◀ or ► to select the desired label for that input source.
- 6. Press EXIT to return to normal viewing.

OPTION	
ON TIMER FAVORITE CH CH LABEL VIDEO LABEL	OFF
• SELECT	():ADJUST

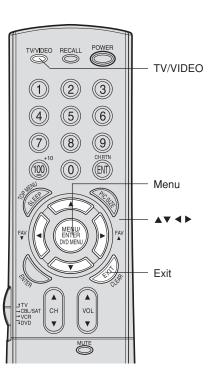
OPTION I.VIDEO1 J.VIDEO2 J.VIDEO2

Note:

When ColorStream HD 1 or HD 2 is selected, the video OUT jack does not output a signal. To receive a video OUT signal, use a video or S-video IN connection instead of the ColorStream connection.

Please note the following regarding the HDMI source selection: This TV is not intended for connection to and should not be used with a PC

to and should not be used with a PC (personal computer). See "Connecting an HDMI or DVI device to the HDMI input" on page 14 for details.



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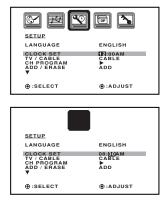
Using the TV's Features

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Setting the clock

You must set the clock before you can program the ON timer.

- To set the clock: (Example: 8:30 AM)
- Press MENU, then press d or ► to display the SETUP menu.
- Press ▲ or ▼ to highlight CLOCK SET.
- Press ◀ or ► to highlight the hour position.
- Press ▲ or ▼ to set the hour, then press ▶ to highlight the minute position.
- 5. Press ▲ or ▼ to set the minutes, then press EXIT to return to normal viewing.



Setting the ON timer

This feature allows you to program the TV to turn on automatically at a set time. If you program the ON TIMER to "DAILY," the TV will turn on every day at the same time to the same channel until you clear the ON TIMER.

To set the on timer: (Example: Turning on the TV to channel 012 at 6:30 AM, DAILY)

- 1. Press MENU, then press ◀ or ► to display the OPTION menu.
- 2. Press ▲ or ▼ to highlight ON TIMER.
- 3. Press ◀ or ► to highlight SET, then press ENTER. The ON TIMER menu appears.

ON TIMER

():ADJUST

ON TIMER

:ADJUST

ON TIMER ON TIMER 06:30AN

:ADJUST

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CH003

end:exit

CH012

ADJUST
 END:EXIT

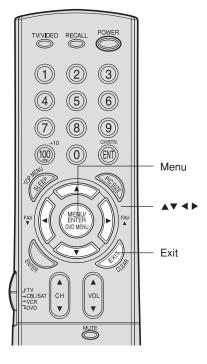
(i):ADJUST END:EXIT

 \mathbf{h}

- Press ▲ or ▼ to set the desired hour, then press ►.
- 5. Set the desired minutes and channel, as in step 4.
- 6. Press ► to select ONCE or DAILY timer date.
- Press EXIT to return to normal viewing.

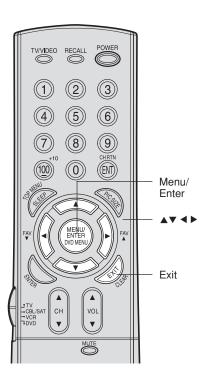
To cancel the on timer:

Select CLEAR in step 6 above. Press EXIT to return to normal viewing.



Note:

If the power source for the TV is interrupted (for example, the power cord is unplugged or a power failure occurs), you will need to reset the clock.



Note:

After a power failure or disconnection of the power, the timer settings will be lost.

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Viewing the wide-screen picture formats (480i, 480p and 1080i signals only)

You can view 480i, 480p and 1080i format programs in a variety of picture sizes—Natural, Theater Wide 1, Theater Wide 2, Theater Wide 3, and Full. (The Full picture size is not selectable for 1080i format program.)

The way the image displays in any of the picture sizes will vary depending on the format of the program you are viewing. Select the picture size that displays the current program the way that looks best to you.

Selecting the picture size

1. Press PIC SIZE on the remote control.

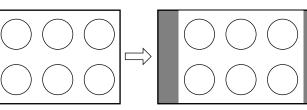
2. Press the corresponding number button (0-4) to select the desired picture size, as described below and on the next page.



Natural picture size

The image is displayed close to its originally formatted proportion. Some program formats will display with side bars and/or bars at the top and bottom.

Natural picture size example: The way the image displays will vary depending on the format of the program you are currently watching.



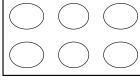
Conventional picture on a conventional TV screen

Conventional picture in Natural size on your wide-screen TV

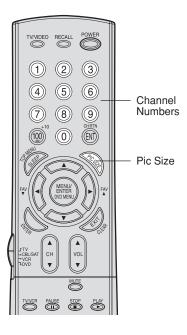
Theater Wide 1 picture size (For 4:3 format program)

- The picture is non-uniformly enlarged—the center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.
- A small part of the picture at the top and bottom is hidden; however, this mode cannot be scrolled.

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Theater Wide 1 picture size example



Important Safeguards

Welcome to Toshiba

Connecting your TV

Note:

You also can change the picture size by selecting PICTURE SIZE in the SETUP menu.





Setting up your TV

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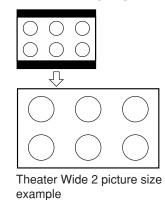
Notes:

- The PICTURE SIZE feature is not available for some program formats (such as 1080i or 720p). Such formats will display in Natural picture size.
- If you select Theater Wide 2 or 3, the top and bottom edges of the picture may be hidden. To see the hidden edges, either scroll the picture (see page 33) or try viewing the program in Full picture size.

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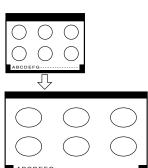
Theater Wide 2 picture size (For Letter box program)

- The entire picture is uniformly enlarged—it is stretched the same amount both wider and taller (retains its original proportion).
- Part of the picture at the top and bottom is hidden. To view the hidden areas, see "Scrolling the Theater Wide picture" on page 33.



Theater Wide 3 picture size (For Letter box program with subtitles)

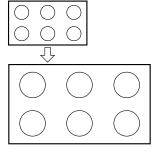
- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but only slightly stretched taller.
- A small part of the picture at the top and bottom is hidden. To view the hidden areas (such as subtitles or captions), see "Scrolling the Theater Wide picture" on page 33.



Theater Wide 3 picture size example

Full picture size (For 16:9 source program)

- The picture is non-uniformly enlarged—if receiving 4:3 format program, it is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



Full picture size example

Using the TV's Features

Note:

Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability. Scrolling the Theater Wide picture (Theater Wide 2 and 3 only)

- 1. Press PIC SIZE to select the Theater Wide 2 or 3 mode.
- 2. Press MENU, and then press ◀ or ▶ until SETUP menu appears.
- 3. Press \blacktriangle or \blacktriangledown to highlight PICTURE SCROLL.



4. Press ◀ or ► to display the Scroll Adjustment mode.



5. Press ▲ or ▼ to adjust the vertical position of the picture.
Normal (center) position

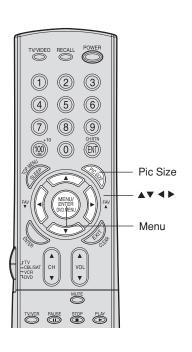


To raise the picture, press ▲.



• To lower the picture, press ▼.





Note:

You can scroll the picture in Theater Wide 2 and Theater Wide 3 only. The scroll amounts are as follows:

 480i/480p/1080i signal source: Wide 1 : Not adjustable Wide 2 : -10 to +20 Wide 3 : -10 to +20



Connecting your TV

Important Safeguards

Setting up your TV

Using the TV's Features

Selecting the cinema mode

When you view a DVD movie (3:2 pulldown processed) from a DVD player connected to the ColorStream (component video) inputs on the TV, smoother and more natural motion can be obtained by setting the CINEMA MODE to FILM (auto).

To set the CINEMA MODE to FILM (auto):

- 1. Press MENU, and then press ◀ or
- ▶ until the SETUP menu appears. 2. Press ▲ or ▼ to highlight CINEMA MODE, and then press \blacktriangleleft or \triangleright to select FILM (auto).



To set the CINEMA MODE to VIDEO (off):

Press ◀ or ► to select VIDEO in step 2 above.

Using the ASPECT feature

When the ASPECT feature is set to ON and the TV receives a 480i signal, the picture size is automatically selected (as described in the following table).

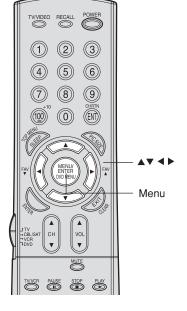
Aspect ratio of signal source	Automatic aspect size (automatically selected when ASPECT is ON)
4:3 Normal	Natural
16:9 Full	Full
4:3 Letter box	Theater wide 2
Not defined	User-set mode

If the signal does not include aspect information, the picture size you selected on pages 31 and 32 is displayed.

To turn on the ASPECT feature:

- ON.

SETUP	
LOSED CAPTION	OFF
PICTURE SIZE PICTURE SCROLL CINEMA MODE	VIDEO
ASPECT IMAGE TILT	ON / OFF 0
SELECT	.ADJUST



Note:

- The ASPECT is also available when viewing HDMI input source of 480i or other format.
- The ASPECT operates according to aspect information indicated in the digital signal of HDMI.



Selecting the display format (for 480p signals

This feature converts an input signal 480p to 540p or 1080i.

To select the display format:

- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press ▲ or ▼ to highlight DISPLAY FORMAT.
- 3. Press ◀ or ► to select 540p or 1080i.



Notes:

- The DISPLAY FORMAT feature is available only for 480p input. 1080i is always output when a signal other than 480p is input.
- If you notice flicking in a 480p image, try setting the DISPLAY FORMAT to 540p.

Adjusting the picture preference

You can select four picture modes—Sports, Standard, Movie, and Memory—as described in the following table:

Mode	Picture Quality
SPORTS STANDARD MOVIE MEMORY	Bright and dynamic picture (factory-set) Standard picture quality (factory-set) Movie-like picture setting (factory-set) Your personal preferences (set by you; see "Adjusting the picture quality")

To adjust the picture quality:

- 1. Press MENU, then press ◀ or ► to display the PICTURE menu.
- 2. Press \blacktriangle or \blacktriangledown to highlight MODE.

	? E N
MODE SPORTS/STAND BRIGHTNESS CONTRAST COLOR TINT SHARPNESS	SPORTS DARD / MOVIE/MEMORY 25 50 25 0 25 0 25
SELECT	(i):ADJUST

3. Press \blacktriangleleft or \blacktriangleright to highlight the mode you prefer.

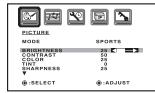
4. Press EXIT to return to normal viewing.

Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the brightness, contrast, color, tint, and sharpness. The qualities you choose will be stored automatically in your TV's memory so you can recall them at any time.

To adjust the picture quality:

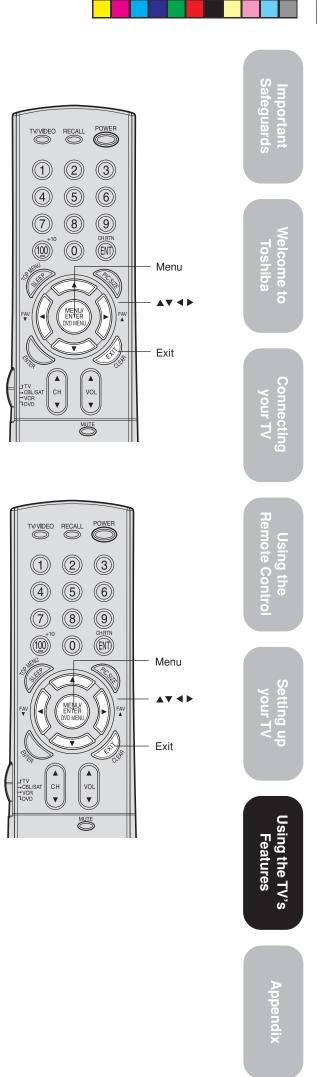
- 1. Press MENU, then press ◀ or ► to display the PICTURE menu.
- 2. Press \blacktriangle or \blacktriangledown until the item you want to adjust is highlighted.



3. Press ◀ or ► to adjust the level.

Selection	Pres	ssing 🕨
BRIGHTNESS	darker	lighter
CONTRAST	lower	higher
COLOR	paler	deeper
TINT	reddish	greenish
SHARPNESS	softer	sharper

4. Press EXIT to return to normal viewing.



Selecting the color temperature

Change the picture quality by selecting from three preset color temperatures-cool, medium, and warm-as described in the following table:

Mode	Picture Quality
COOL	Blueish
MEDIUM	Neutral
WARM	Reddish

To select the color temperature:

1. Press MENU, then press ◀ or ► to display the PICTURE menu. 2. Press ▲ or ▼ to highlight COLOR TEMPERATURE.



3. Press ◀ or ▶ to highlight the mode you prefer.

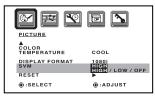
4. Press EXIT to return to normal viewing.

Selecting the Scan Velocity Modulation (SVM)

The SVM feature enhances picture contrast and sharpness. This feature has three modes: HIGH, LOW, and OFF.

To select the SVM feature:

1. Press MENU, then press ◀ or ► to display the PICTURE menu. 2. Press \blacktriangle or \blacktriangledown to highlight SVM.



3. Press \blacktriangleleft or \blacktriangleright to select the mode you prefer.

To turn off the SVM:

Select OFF in step 3.

Resetting picture adjustments

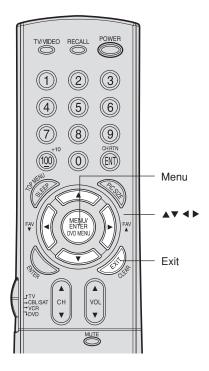
The RESET function adjusts the picture qualities to the following factory settings:

Mode sports	Tint center (0)
Brightness center (50)	Sharpness center (25)
Contrast max (25)	Color temperature cool
Color center (25)	SVMhigh

To reset the picture adjustments:	To reset the	picture ad	liustments:
-----------------------------------	--------------	------------	-------------

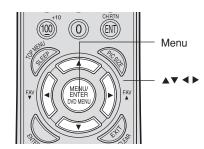
1. Press MENU, then press ◀ or ► to display the PICTURE menu. 2. Press \blacktriangle or \checkmark to highlight RESET, and then press \blacktriangleright .

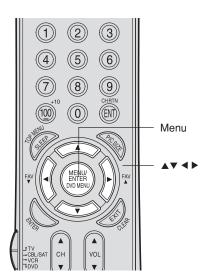
PICTURE	
▲ Color Temperature	COOL
DISPLAY FORMAT SVM	1080i HIGH
RESET	
SELECT	.ADJUST



Note:

SVM is not required when viewing some high-quality video material. If you are watching high-quality video material, you may want to set SVM to OFF.





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Setting the sleep timer

You can set the TV so it turns off automatically.

To set the sleep timer:

Repeatedly press SLEEP on the remote control to set the length of time until the TV turns off. The clock will count down 10 minutes for each press of the SLEEP button (2h00m, 1h50mm, ...0h10m, 0h00mm). After the sleep time is programmed, the display will appear briefly every ten minutes to remind you that the sleep timer is operating.

To confirm the sleep timer setting:

Press SLEEP one time. The remaining time will be momentarily displayed.

To cancel the sleep timer:

Repeatedly press SLEEP until the display turns to 0h00m.

Using the closed caption feature

The Closed Caption feature has two options:

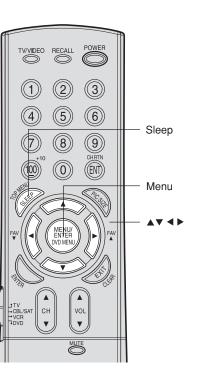
- Captions—An on-screen display of the dialogue, narration, and sound effects of programs and videos that are closed-captioned (usually identified in your local TV listing as "CC").
- Text—An on-screen display of information not related to the program, such as weather or stock data (if available in your viewing area).

To view captions or text:

- 1. Tune the TV to the desired program.
- 2. Press MENU, and then press ◀ or ► to display the SETUP menu.
- 3. Press ▲ or ▼ to highlight CLOSED CAPTION.



- Press d or ► to select the desired Closed Caption mode, as follows:
 - To view captions, select C1 or C2 (C1 displays translation of the primary language in your area). Note: If the program or video you selected is not closed-captioned, no captions will display on-screen.
 - To view text, select T1 or T2. Note: If text is not available in your viewing area, a black rectangle may appear on-screen. If this happens, set the Closed Caption feature to OFF.
 - To turn the Closed Caption feature off, highlight OFF in the Closed Caption menu.



Note:

A closed caption signal may not be decoded in the following situations:

- when a video tape has been dubbed
- when the signal reception is weak
- when the signal reception is non-standard



<u>Using the</u>

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Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display the word MUTE in the lower right-hand corner. To restore the sound, press MUTE again.

Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature provides high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language or other audio information. Note: The MTS feature is not available in VIDEO mode.

In general, you can leave your TV in stereo mode because the TV automatically outputs the type of sound being broadcast (stereo or mono).

When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" displays on-screen every time you turn the TV on, change the channel, or press RECALL.

To listen to stereo sound:

- 1. Press MENU, then press ◀ or ► to display AUDIO menu.
- 2. Press \blacktriangle or \blacktriangledown to highlight MTS.
- 3. Press ◀ or ► to highlight STR (stereo).

Note: If the stereo sound is noisy, select MONO to reduce the noise.

MTS 25 BASS 25 TREBLE 25 BALANCE 0 STABLE SOUND ON SPEAKERS ON
⊕:SELECT ⊕:ADJUST

4. Press EXIT to return to normal viewing.

To listen to a second audio program (SAP):

- 1. Press MENU, then press ◀ or ► to display AUDIO menu.
- 2. Press \blacktriangle or \blacktriangledown to highlight MTS.
- 3. Press ◀ or ► to highlight SAP. The TV speakers will output the second audio program instead of normal audio.
- 4. Press EXIT to return to normal viewing.

Adjusting the sound quality

You can change the sound quality of your TV by adjusting the bass, treble, and balance.

To adjust the sound quality:

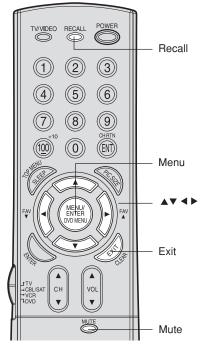
Press MENU, then press ◀ or ▶ until the AUDIO menu appears.
 Press ▲ or ▼ to highlight the item you want to adjust.

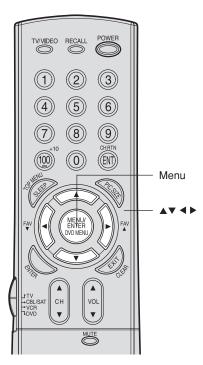
AUDIO	
MTS BASS TREBLE	STEREO
BALANCE STABLE SOUND	0 0 0
SPEAKERS	ÖN .
():SELECT	():ADJUST

3. Press \blacktriangleleft or \blacktriangleright to adjust the level.

- < makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.
- makes the sound quality stronger or decreases the balance in the left channel, depending on the item selected.









Resetting your audio adjustments

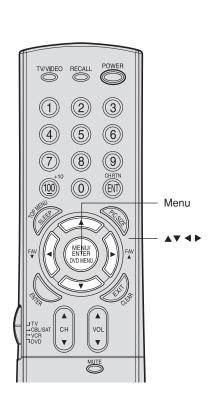
The RESET function returns the audio adjustments to the following factory settings:

Basscenter (25) Treble center (25) Balance center (0)

To reset the audio adjustments:

- 1. Press MENU, then press ◀ or ► to display the AUDIO menu.
- 2. Press \blacktriangle or \checkmark to highlight RESET, and then press \blacktriangleright .

AUDIO	
▲ WOW SRS 3D FOCUS TruBass HDMI	OFF OFF HDMI
RESET	•
• SELECT	():ADJUST



Using the StableSound® feature

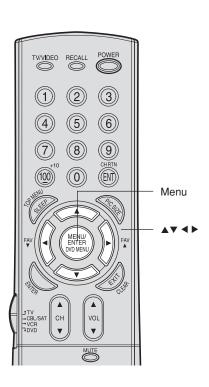
The StableSound feature limits the highest volume level to prevent extreme changes in volume when the signal source is changed.

To turn on the StableSound® feature:

- 1. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the AUDIO menu.
- 2. Press \blacktriangle or \blacktriangledown to highlight STABLE SOUND.
- 3. Press \blacktriangleleft or \blacktriangleright to highlight ON.



To turn off the StableSound[®] feature: Highlight OFF in step 3 above.





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Using the TV's Features



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Using the WOW[™] surround sound feature

WOW is a special combination of SRS Labs audio technologies that creates a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider. WOW consists of three features; SRS3D, FOCUS, and TruBass, being turned on.

To adjust the WOW feature:

- 1. Select STEREO mode (see "selecting stereo/SAP broadcasts" on page 38).
- 2. Press MENU, and then press ◀ or ► to display the AUDIO menu.
- 3. Press \triangledown or \blacktriangle to highlight the desired WOW feature you want to
 - adjust. • SRS 3D — To turn on or off the surround sound effect.
 - FOCUS To turn on or off the vocal emphasis effect.
 - TruBass To select your desired bass expansion level (HIGH, LOW or OFF).



4. Press \blacktriangleleft or \blacktriangleright to adjust the item.

Turning off the built-in speakers

Use this feature to turn the TV speakers off when you connect an audio system (see "Connecting an audio system" on page 15). **To turn off the built-in speakers:**

- 1. Press MENU, then press ◀ or ► to display the AUDIO menu.
- Press ▲ or ▼ to highlight SPEAKERS, and then press ◀ or ▶ to select OFF.

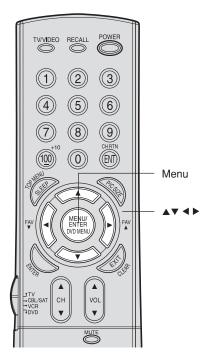
	F 💊
AUDIO	
MTS BASS TREBLE BALANCE	STEREO 25 25 0
STABLE SOUND SPEAKERS	ON
•	
(i):SELECT	(i):ADJUST

- Jsing the TV's Features
- To turn on the built-in speakers: Select ON in step 2 above.

Note:

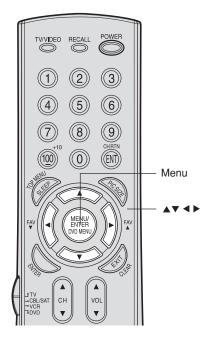
If the broadcast is monaural, the SRS 3D effect will not work.

SRS WOW, SRS and (•) symbol are trademarks of SRS Labs, Inc. SRS WOW technology is incorporated under license from SRS Labs, Inc.

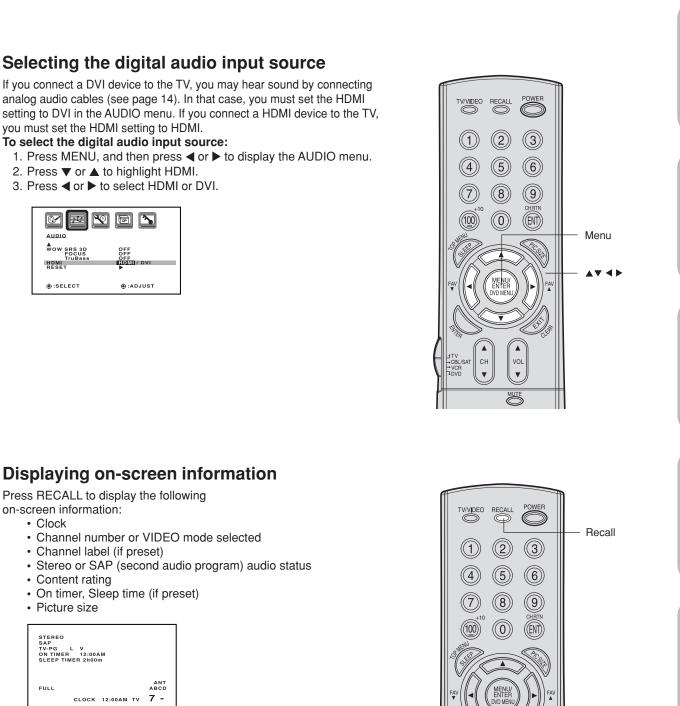


Note:

Make sure the volume control of your audio amplifier is set to a moderate listening level.



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Auto power off

FULL

The TV will automatically turn off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day and stops broadcasting on that channel. This feature does not work in VIDEO mode.

Understanding the Power Return feature

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If the power is cut off while you are viewing the TV and the power is resupplied, the Power Return feature will turn the TV on automatically.

If the power is going to be off for a long time or you are going to be away from home for a long time, unplug the power cord from the wall outlet to prevent the TV from turning on in your absence.

Important Safeguard:

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Appendix

Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the problem and some solutions.

Problem	Solution
TV will not turn on	Make sure the power cord is plugged in, then press POWER.The remote control batteries may be dead. Replace the batteries.
No picture, no sound	Check the antenna/cable connections.
No sound, picture OK	 The sound may be muted. Press VOLUME. The station may have broadcast difficulties. Try another channel. The MTS feature may be in SAP mode. Select STR or MONO in the MTS menu.
Poor sound, picture OK	 The station may have broadcast difficulties. Try another channel. The MTS feature may be in SAP mode. Select STR or MONO in the MTS menu.
Poor picture, sound OK	Check the antenna connections.The station may have broadcast difficulties. Try another channel.Adjust the PICTURE menu.
Poor reception of broadcast channels	 The station may have broadcast difficulties. Try another channel. Check the antenna connections. If you are using a video input, make sure the TV/VCR button is set correctly.
Cannot receive above channel 13	Make sure TV/CABLE is set to CABLE mode.
Unable to select a certain channel	 The channel may be blocked by the V-Chip feature or CH LOCK feature, or erased with the add/erase feature.
Cannot access signal input sources (Video1, Video2, Video3 and ColorStream HD1, Color- Stream HD2 and HDMI) and/or Channels 3 and 4	Check the VIDEO LOCK feature.
Multiple images	The station may have broadcast difficulties. Try another channel.Use a highly directional outdoor antenna.
Poor color or no color	 The station may have broadcast difficulties. Try another channel. Adjust the TINT and/or COLOR in the PICTURE menu. If you change the direction of the TV while it is turned on, the picture could suffer from color shading. If so, turn off the TV and allow it to cool for several hours before turning it on again.
Black box on screen	 Select OFF in the Closed Caption menu to turn off the Closed Caption Text mode.
No stereo or SAP sound from a known MTS broadcast	Make sure the MTS feature is set properly (AUDIO menu).
The V-Chip password does not work (U.S. V-Chip system only)	Change or reset your password (page 25).
The remote control does not operate	 Make sure the TV • CBL/SAT • VCR • DVD mode is set properly. Remove all obstructions between the remote control and the TV. The remote control batteries may be dead. Replace the batteries.
The front panel buttons do not operate	Check the FRONT PANE LOCK feature.

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Specifications

	26HF84	30WF84	
Picture Tube	Type 26 (656.7 mm diagonal)	Type 30 (700 mm diagonal)	
Television system	NTSC standard		
Channel coverage	VHF: 2 – 13		
	UHF: 14 – 69		
	Cable TV: 4A, A-5 – A-1, A-I,		
	J – W, W+1 – W+84		
Power source	120V AC, 60 Hz		
Power consumption	175 W	185 W	
Audio power	5.0 W + 5.0 W	10 W + 10 W	
Speaker type	1-13/16 x 3-7/8 inches (46 x 99 mm) x 2 pcs.		
Video/Audio terminals	S-VIDEO INPUT		
	Y-INPUT: 1V (p-p), 75 ohm, negative sync.		
	C-INPUT: 0.286V (p-p) (burst signal), 75 ohm		
	VIDEO/AUDIO INPUT		
	VIDEO: 1V (p-p), 75 ohm, negative sync.		
	AUDIO: 150 mV (rms) (30% modulation equivalent, 47k ohm)		
	ColorStream® (component video) INPUT		
	Y: 1V (p-p), 75 ohm		
PR: 0.7V (p-p), 75 ohm PB: 0.7V (p-p), 75 ohm			
	VIDEO/AUDIO OUTPUT		
	VIDEO: 1V (p-p), 75 ohm, negative sync.		
	AUDIO: 150 mV (rms) (30% modulation equivalent, 47k ohm)		
	HDMI INPUT: HDMI compliant (type A connector)		
	HDCP compliant		
	E-EDID* compliant		
	Suggested scan rates: 1080i, 480p, 480i, 720p		
	HDMI Audio: 2-channel PCM		
	32/44.1/48 kHz sampling frequency		
	16/20/24 bits per sample		
Dimensions	Width: 27-9/16 inches (700 mm)	Width: 31-5/16 inches (796 mm)	
	Height: 19-1/2 inches (495.5 mm)	Height: 21-5/8 inches (549.2 mm)	
NA(* 1)	Depth: 19-3/4 inches (502 mm)	Depth: 22-3/16 inches (563 mm)	
Weight	79.4 lbs. (36 kg)	88.2 lbs. (54 kg)	
Supplied accessories	Remote control with two size "AA" batteries		

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Design and specifications are subject to change without notice.

Features

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Connecting vour TV

Using the Remote Control

Setting up your TV

Limited United States Warranty for 27" FST PURE[®] and All Larger Television Models

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labor*

TACP warrants this television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFEC-TIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. TACP Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the TACP Authorized Service Station for repair and returned to your home at no cost to you.

Limited Two (2) Year Warranty on Picture Tube*

TACP further warrants the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT, IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR RE-PLACED AFTER ONE (1) YEAR FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU PAY LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT.

Rental Units

The warranty for rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

*Commercial Units

Televisions sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor, and picture tubes.

Owner's Manual and Product Registration Card

Read this owner's manual thoroughly before operating this television. Complete and mail the enclosed product registration card within ten days after you, or the person who has given you this product as a gift, purchased this television. Returning the product registration card will enable TACP to provide you with better customer service and improved product support. Failure to return the product registration card will not affect your rights under this warranty.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- You must provide your bill of sale or other proof of purchase.
 All warranty servicing of this television must be made by an
- Authorized TACP Service Station. (3) Warranties from TACP are effective only if the television is
- purchased and operated in the U.S.A. or Puerto Rico.

- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts that have been lost or discarded by you or to damage to television orparts caused by misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- (1) To find the nearest TACP Authorized Service Station: For televisions purchased in the United States, visit TACP's web site at www.toshiba.com/tacp, or call toll free 1-800-631-3811.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Station. Authorized TACP Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the Authorized Service Station for repair and returned to your home at no cost to you.

For additional information, visit TACP's web site: www.toshiba.com/tacp.

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGO-ING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP arising under this warranty or under any law of the United States or of any state thereof is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, LIMITATIONS ON THE TIME WITHIN WHICH AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES; THEREFORE, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

FST PURE[®] is a registered trademark of Toshiba America Consumer Products, L.L.C. REV. MAR02

Limited Canada Warranty

If you purchased your TV in Canada, register it online at **www.toshiba.ca**

for 27" FST PURE[®] and All Larger Television Models

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

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Limited One (1) Year Warranty on Parts and Labor*

TCL warrants this television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. TCL Authorized Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the TCL Authorized Service Depot for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.

Limited Two (2) Year Warranty on Picture Tube*

TCL further warrants the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT, IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER ONE (1) YEAR FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU PAY LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT.

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Owner's Manual

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Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this television must be made by an Authorized TCL Service Depot.
- (3) The warranties from TCL are effective only if the television is purchased in Canada from an authorized TCL dealer and operated in Canada.

- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts that have been lost or discarded by you or to damage to television or parts caused by misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TCL; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Services

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- (1) To find the nearest TCL Authorized Service Depot, visit TCL's web site: **www.toshiba.ca**.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Depot. Authorized TCL Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the Authorized Service Depot for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.

For additional information, visit TCL's web site: www.toshiba.ca

ALL WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TCL WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TCL BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TCL arising under this warranty or under any law of Canada or of any province thereof, is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any province of Canada.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM PROVINCE TO PROVINCE IN CANADA. SOME PROVINCES OF CANADA DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, LIMITATIONS ON THE TIME WITHIN WHICH AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES; THEREFORE, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

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Using the TV's Features

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TOSHIBA AMERICA CONSUMER PRODUCTS, L.L.C.

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TOSHIBA OF CANADA LIMITED

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